

GENERAL INDEX TO VOLUME XXII.

INDEX TO SUBJECTS

- Acorn honey..... 726
Adjustable honey-cases..... 377
Adopting new hives..... 108
Adulterated food..... 83, 99, 211
Adulterated honey..... 186, 760
Age of queens..... 590, 650
Albino bees..... 9
American apicultural history..... 20
American bee-papers..... 707
Amiability of Italian bees..... 132, 165
Amount of honey stored by bees..... 772
An old colony..... 234
Annoyed by bees..... 314, 323, 330
Another bee-paper gone..... 537
Ants..... 314, 378, 436, 452
Apiary in New Zealand..... 311
Apicultural discussions..... 132, 165
Apicultural journalism..... 662
Apicultural outlook..... 310
Apicultural review..... 631
Apiculture and political economy..... 454
Apis Americana..... 667
Are the drones pure?..... 197, 234
Artificial honey..... 502
Arrangement of hives..... 502
Autobiography of Baron von Berlepsch..... 503
Axes to grind..... 409, 519
A year among the bees..... 211, 227, 312, 327..... 821
- Badly stung..... 773
Bailing queens..... 347
Basswood vs. Linden..... 805
Bee and honey show of Scotland..... 547
Bee-charm..... 763
Bee-conventions..... 69, 389, 749
Bee-culture and silk-worms..... 491
Bee-enemies in Florida..... 553
Bee-keepers of the past and present..... 438
Bee-keepers repository..... 376
Bee-keeping and gardening..... 425
Bee-keeping as a business..... 229
Bee-keeping for women 27, 88, 422, 715
- BEE-KEEPING—**
In Alabama..... 555
Arkansas..... 171
California..... 458
Cuba..... 23, 315, 520, 534
Florida..... 10, 264, 458, 695, 698
Frontier..... 605
Georgia..... 605
Great American Desert..... 57
Illinois..... 9, 695
Indiana..... 695
Iowa..... 150, 168, 187
Kentucky..... 251, 586
Maine..... 104, 591
Michigan..... 695
Minnesota..... 522
Mississippi 315, 343, 410, 442, 491, 571
Missouri..... 23
Nebraska..... 41, 74, 378, 748, 824
New York..... 92
Ohio..... 92
Ontario..... 296
Oregon..... 304, 570
Pennsylvania..... 696
Quebec..... 696
Texas..... 43, 123, 172, 491, 714, 735
Utah..... 138
Virginia..... 443
West Virginia..... 60
- Bee-killers..... 505, 603
Bee-law suits..... 569, 646, 691, 739
Bee-literature..... 663
Bee-moth..... 295, 407
Bee of the Bible..... 375
Bee-poison..... 628
Bees and bee-hives—M. Quimby's experience..... 376
Bee-stings..... 40, 478, 490, 538
Bees and flowers..... 188
Bees and fruit..... 25, 245, 299
Bees and grapes..... 227, 259, 267, 805
Bees as missionaries..... 579
Bees at a zoological garden..... 435
Bees deserting hives..... 406
Bees drowning in sap-pails..... 196
Bees dying on the snow..... 309
Bees for a body-guard..... 707
Bees for business..... 792
Bees hanging out..... 484, 570
Bees' heads and honey-cells..... 347
Bees in a green-house in winter..... 248
Bees in Cyprus..... 435
Bees not well marked in Italy..... 163
Bees of Mt. Sinai..... 515
Bees swarming out..... 109, 295
Bingham's shallow-frame system 122
- Bird's-eye view of bee-keeping 487, 615
Bitter honey..... 555
Blasted hopes..... 163
Blow, March winds, blow!..... 44
Boneset honey for winter stores..... 692
Brethren, please don't..... 182
Brood-frame and section-case covers..... 180
- Caging and introducing queen-cells..... 485
Canadian apiarists in London..... 728
Canadian bee-lawsuit 739, 741 787, 822
Canadian honey-exhibit in England..... 694
Candy for winter feeding..... 74
Capacity of brood-chambers..... 644
Cappings over honey..... 702, 704
Care in making progress..... 246
Care of bees in winter..... 59
Carniolan bees..... 454, 554, 775
Carniolans vs. Italians..... 116
Carrying out brood..... 558, 772
Catching prime swarms..... 84
Caucasian bees..... 406, 714
Cause of bee-diarrhea..... 196, 713
Cause of loss in winter..... 184, 216, 298
Ceylon bees..... 569
Cheap hives..... 40
Changes in apiarian fixtures..... 361
Cheap honey..... 216
Cheshire's new bee-book..... 246
Chicago riot..... 204
Cider and bees..... 170
Cleaning bee-smokers..... 603
Cleansing-flights in winter..... 804
Cleansing foul-broody hives 52
137, 139, 170, 171..... 219
Closed-top sections..... 804
Closing in bees with wire-screens..... 68
Colonies with mixed bees..... 798
Comb foundation 100, 135, 195, 279, 792
Comb foundation on wired frames..... 183
Comb honey vs. extracted 53, 74, 155, 168, 230..... 759
Comb measurement..... 714, 762
Combs on trees..... 603
Combs on wired frames..... 586
Compelling removal of bees..... 634
Congress and adulteration..... 419
Conveniences for the apiary..... 233
- CONVENTIONS—**
Boone and Hendricks co..... 504
Cedar Valley..... 150, 568, 800
Champlain Valley..... 88
Des Moines co..... 281
Eureka Springs..... 424
Fremont Progressive..... 331
Guelph Central..... 518
Haldimand..... 425, 566
Hardin co..... 810
Harris Central..... 648
Illinois..... 138
Indiana..... 109
Iowa..... 520, 774
Johnson 60..... 294
Maine..... 119
Marion co..... 296
Marshall co..... 27, 214, 391, 632, 790
Michigan..... 723, 789, 805
N. J. & Eastern..... 298
New York..... 133
North American 427, 483, 563, 630, 602, 634, 659, 661, 676, 695, 739..... 758
N. E. Kansas..... 8
N. E. Michigan..... 135, 183
N. E. Ohio & N. W. Pa..... 117
Northern Ohio..... 344
Northwestern..... 594
Ohio..... 598
Oneida co..... 87, 151
Ontario..... 614
Pan-Handle..... 713
Philadelphia..... 595
Rhode Island..... 349
Sheboygan co..... 329
Southern Illinois..... 713
Stark co..... 206, 712
Ventura co..... 562
Western..... 325, 743
Wisconsin..... 119
Win Lake Shore Centre..... 349
Covering bottom-boards..... 756
Cutting out queen-cells..... 165
Cyprian and Syrian bees..... 756
- Dampness in hives..... 81
Dark capping of honey..... 116
Dark honey..... 724
Dealing with commission-men..... 499
- DEATH NOTICES—**
James Anderson..... 675
O. M. Brown..... 3
S. K. Clark..... 35
L. J. de Sobotker..... 755
W. B. Dresser..... 323
Wm. Mosher..... 323
John Peacock..... 83
Nelson Perkins..... 186
J. J. Sperry..... 101
Elias Thomasson..... 67
Rev. Robt. West..... 707
- Decreasing breeding..... 60, 105
Destroying drones and drone-brood..... 500
Destroying queen-cells..... 84, 442
Detecting glucose..... 675
Device for feeding sugar syrup..... 226
Distance between apiaries..... 101
Difference in colonies..... 277
Differential diagnosis..... 181
Different races of bees..... 136
Discussion and controversy..... 220, 553
Display of honey-plants..... 331
Disposing of surplus of bees..... 596
Distance between apiaries..... 225, 339, 630
Dividing colonies..... 101
Division-boards..... 235, 356, 411
Do bees exercise to keep warm? 746
Do bees hear?..... 120, 171, 232
Do drones work?..... 208
Does bee-keeping pay..... 121, 326, 453
Dog killed by bees..... 714
Doolittle's report..... 631
Do queens lay drone-eggs?..... 244
Do queens re-mate?..... 388
Dots on Italian queens..... 4
Double-walled hives..... 359, 393
Drones..... 646
Drones comb building..... 471, 523, 550
Drones comb in the second story..... 532
Drones and drone-comb..... 682
Duty of the hour..... 707
Duty on beeswax..... 35
- Early swarm..... 313
Earthquakes and bees..... 451, 586
Egg-bound queen..... 587
Eggs that produce queens..... 36, 219
Elements of fat, etc..... 651, 711, 743
Empty combs..... 324, 340, 387, 404, 407
Empaneled-cloth or oil-cloth covering..... 292
English honey markets..... 659
English royalty and the bees..... 547
Eras of bee-keeping..... 359
Essentials to success in bee-culture..... 233
Evaporating and grading honey..... 536
Excluding market reports from bee-papers..... 810, 811, 825
Experience and experiment 501, 602..... 675
Experiences in bee-keeping 72, 75, 91, 107, 172, 267, 458, 504, 581, 643, 647..... 824
Extensive brood-rearing..... 281
Extracted honey..... 153, 166, 186, 745
Extracting..... 363, 424, 457
Extra colonies or manipulation— which?..... 453
Extra openings in hives..... 388
- Fall honey for winter stores..... 644
Fall work in the apiary..... 535
Fastening combs to separators..... 509
Fastening frames in hives..... 234
Feeding back extracted honey..... 628
Feeding bees 4, 6, 123, 156, 164, 180, 186, 196, 202, 243, 276, 296, 350, 347, 550, 741..... 778
Feeding bees for winter..... 644, 696, 805
Feeding maple syrup..... 283
Feeding sugar to bees..... 281, 297, 329, 362, 411, 473, 520, 550, 601, 646
Fenced bee-yards..... 421
Fertilization of flowers by bees..... 6, 153, 188..... 280
Fertilization of queens..... 180, 277
Finding the queen..... 85, 123
First of May..... 275
Floating pollen in the honey..... 612
Formation of "cells" by bees..... 470
Foul brood 295, 360, 385, 491, 531, 557, 559, 584, 596, 601, 615, 616, 676, 698, 710, 712, 744, 757, 773, 792
Foundation in the brood-chamber 632
Freaks of bees..... 39
Frozen fish in Florida..... 342
Fruit-growers and bee-keepers..... 393
Fumigating comb honey..... 740
Fumigator for introducing queens..... 538
Future of bee-culture..... 758
- German bee-papers..... 803
Getting a large surplus..... 598
Getting bees from a bee-tree..... 788
Getting bees into the sections..... 628
Getting ready for the honey-flow..... 148
Glass globe with bees..... 571
Grading honey for market..... 467, 565
Granulated and thin honey..... 295
Granulation of honey..... 164, 196
Grape-growers and bees..... 469
- Half bee-apices..... 267
Handling bees..... 791
Hatching bee-eggs..... 726
Has Nature made a mistake?..... 631
Have bees a language?..... 230
Heidon's new hive and bee-book 213, 218..... 270
Hibernation of bees 5, 11, 41, 55, 87, 171, 197, 203, 230, 232, 235, 313, 421..... 808
Hints to bee-keepers..... 147, 824
Hive construction and manipulation..... 455
Hive entrances in winter..... 85
Hive I use..... 361
Hive packing for winter..... 651
Hives from artificial stone..... 28
Hive with transverse passages..... 522
Hiving bees..... 472, 523
Home-made blinder..... 307
Honey at Fairs..... 710, 806
Honey-bees and horticulture..... 470
Honey crop of California 115, 147, 355..... 5
Honey-dew 235, 348, 442, 459, 474, 486, 490, 503, 522, 523, 538..... 628
Honey-flora of northern Michigan..... 793
Honey for bees in winter..... 247
Honey for catarrh..... 707
Honey for cholera..... 419
Honey from cappings..... 789
Honey improving by age..... 538
Honey in drone comb for winter..... 680
Honey interests of Florida..... 102, 217..... 329
Honey in Virginia..... 227
Honey market..... 6, 70, 198
Honey-plants..... 41, 214, 264, 676, 778
Honey producers' association..... 811
Honey season in California..... 227
Honey season in Scotland..... 659
Honey used in manufactures..... 675
Honor to whom honor is due..... 619
Horizontal, divisible brood-chambers..... 185
Horses and bee-stings..... 422, 487
House apiaries..... 193, 197, 260, 267
How bees exercise..... 155
How larval bees eat..... 155
How to build a bee-cave..... 776
How to make a honey-room..... 331
Hum, sweet hum..... 293
Hunting bees..... 344, 507
Hybrid bees..... 532, 597
- Importance of apiculture..... 297
In-and-in breeding of bees..... 292
Increase or no increase— which? 580
Infertile queen..... 698
Influence of honey on wintering..... 423
Influence of pollen on honey..... 148
Injustice to honey-producers..... 474
Insect-wax of China..... 24
Intestinal accumulations of bees..... 614
Introducing queens..... 22, 54, 105, 107, 143, 248, 324, 427..... 538
Inventions..... 409
Inverting the brood-nest..... 777
Iowa state fair..... 597
Is it true?..... 707
Italianizing bees 282, 324, 665, 616, 756
Italians vs. black bees..... 699
- Keeping bees in a warm room..... 778
740..... 450
Keeping bees near a railroad 100, 198..... 740
Keeping bees on shares..... 84, 570, 740
Killing young bees..... 237
Kindly criticism..... 246, 282
King winter..... 102
Knowing pure honey..... 92
Kretschmer alternating hive..... 204
- Labeling honey..... 505, 811
Lamentations for introducing queens..... 531
Lamp-nursery for queen-rearing 120, 183..... 232

GENERAL INDEX TO VOLUME XXII.

INDEX TO SUBJECTS

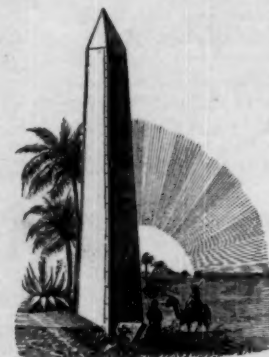
- Acorn honey..... 726
Adjustable honey-cases..... 377
Adopting new hives..... 108
Adulterated food..... 83, 99, 211
Adulterated honey..... 186, 760
Age of queens..... 590, 650
Albino bees..... 9
American apicultural history..... 20
American bee-papers..... 707
Amiability of Italian bees..... 132, 165
Amount of honey stored by bees..... 772
An old colony..... 234
Annoyed by bees..... 314, 323, 330
Another bee-paper gone..... 537
Ants..... 314, 378, 436, 452
Apiary in New Zealand..... 311
Apicultural discussions..... 132, 165
Apicultural journalism..... 662
Apicultural outlook..... 310
Apicultural review..... 631
Apiculture and political economy..... 454
Apis Americana..... 667
Are the drones pure?..... 197, 234
Artificial honey..... 502
Arrangement of hives..... 502
Autobiography of Baron von Berlepsch..... 503
Axes to grind..... 409, 519
A year among the bees..... 211, 227, 312, 327..... 821
- Badly stung..... 773
Bailing queens..... 347
Basswood vs. Linden..... 805
Bee and honey show of Scotland..... 547
Bee-charm..... 763
Bee-conventions..... 69, 389, 749
Bee-culture and silk-worms..... 491
Bee-enemies in Florida..... 553
Bee-keepers of the past and present..... 438
Bee-keepers repository..... 376
Bee-keeping and gardening..... 425
Bee-keeping as a business..... 229
Bee-keeping for women 27, 88, 422, 715
- BEE-KEEPING—**
In Alabama..... 555
Arkansas..... 171
California..... 458
Cuba..... 23, 315, 520, 534
Florida..... 10, 264, 458, 695, 698
Frontier..... 605
Georgia..... 605
Great American Desert..... 57
Illinois..... 9, 695
Indiana..... 695
Iowa..... 150, 168, 187
Kentucky..... 251, 586
Maine..... 104, 591
Michigan..... 695
Minnesota..... 522
Mississippi 315, 343, 410, 442, 491, 571
Missouri..... 23
Nebraska..... 41, 74, 378, 748, 824
New York..... 92
Ohio..... 92
Ontario..... 296
Oregon..... 304, 570
Pennsylvania..... 696
Quebec..... 696
Texas..... 43, 123, 172, 491, 714, 735
Utah..... 138
Virginia..... 443
West Virginia..... 60
- Bee-killers..... 505, 603
Bee-law suits..... 569, 646, 691, 739
Bee-literature..... 663
Bee-moth..... 295, 407
Bee of the Bible..... 375
Bee-poison..... 628
Bees and bee-hives—M. Quimby's experience..... 376
Bee-stings..... 40, 478, 490, 538
Bees and flowers..... 188
Bees and fruit..... 25, 245, 299
Bees and grapes..... 227, 259, 267, 805
Bees as missionaries..... 579
Bees at a zoological garden..... 435
Bees deserting hives..... 406
Bees drowning in sap-pails..... 196
Bees dying on the snow..... 309
Bees for a body-guard..... 707
Bees for business..... 792
Bees hanging out..... 484, 570
Bees' heads and honey-cells..... 347
Bees in a green-house in winter..... 248
Bees in Cyprus..... 435
Bees not well marked in Italy..... 163
Bees of Mt. Sinai..... 515
Bees swarming out..... 109, 295
Bingham's shallow-frame system 122
- Bird's-eye view of bee-keeping 487, 615
Bitter honey..... 555
Blasted hopes..... 163
Blow, March winds, blow!..... 44
Boneset honey for winter stores..... 692
Brethren, please don't..... 182
Brood-frame and section-case covers..... 180
- Caging and introducing queen-cells..... 485
Canadian apiarists in London..... 728
Canadian bee-lawsuit 739, 741 787, 822
Canadian honey-exhibit in England..... 694
Candy for winter feeding..... 74
Capacity of brood-chambers..... 644
Cappings over honey..... 702, 704
Care in making progress..... 246
Care of bees in winter..... 59
Carniolan bees..... 454, 554, 775
Carniolans vs. Italians..... 116
Carrying out brood..... 558, 772
Catching prime swarms..... 64
Caucasian bees..... 406, 714
Cause of bee-diarrhea..... 196, 713
Cause of loss in winter..... 184, 216, 298
Ceylon bees..... 569
Cheap hives..... 40
Changes in apiarian fixtures..... 361
Cheap honey..... 216
Cheshire's new bee-book..... 246
Chicago riot..... 204
Cider and bees..... 170
Cleaning bee-smokers..... 603
Cleansing-flights in winter..... 804
Cleansing foul-broody hives 52
137, 139, 170, 171..... 219
Closed-top sections..... 804
Closing in bees with wire-screens..... 68
Colonies with mixed bees..... 798
Comb foundation 100, 135, 195, 279, 792
Comb foundation on wired frames..... 183
Comb honey vs. extracted 53, 74, 155, 168, 230..... 759
Comb measurement..... 714, 762
Combs on trees..... 603
Combs on wired frames..... 586
Compelling removal of bees..... 634
Congress and adulteration..... 419
Conveniences for the apiary..... 233
- CONVENTIONS—**
Boone and Hendricks co..... 504
Cedar Valley..... 150, 568, 800
Champlain Valley..... 88
Des Moines co..... 281
Eureka Springs..... 424
Fremont Progressive..... 331
Guelph Central..... 518
Haldimand..... 425, 566
Hardin co..... 810
Harris Central..... 648
Illinois..... 138
Indiana..... 109
Iowa..... 520, 774
Johnson 60..... 294
Maine..... 119
Marion co..... 296
Marshall co..... 27, 214, 391, 632, 790
Michigan..... 723, 789, 805
N. J. & Eastern..... 298
New York..... 133
North American 427, 483, 563, 630, 602, 634, 659, 661, 676, 695, 739..... 758
N. E. Kansas..... 8
N. E. Michigan..... 135, 183
N. E. Ohio & N. W. Pa..... 117
Northern Ohio..... 344
Northwestern..... 594
Ohio..... 598
Oneida co..... 87, 151
Ontario..... 614
Pan-Handle..... 713
Philadelphia..... 595
Rhode Island..... 349
Sheboygan co..... 329
Southern Illinois..... 713
Stark co..... 206, 712
Ventura co..... 562
Western..... 325, 743
Wisconsin..... 119
Wis. Lake Shore Centre..... 349
Covering bottom-boards..... 756
Cutting out queen-cells..... 165
Cyprian and Syrian bees..... 756
- Dampness in hives..... 81
Dark capping of honey..... 116
Dark honey..... 724
Dealing with commission-men..... 499
- DEATH NOTICES—**
James Anderson..... 675
O. M. Brown..... 3
S. K. Clark..... 35
L. J. de Sobotker..... 755
W. B. Dresser..... 323
Wm. Mosher..... 323
John Peacock..... 83
Nelson Perkins..... 186
J. J. Sperry..... 101
Elias Thomasson..... 67
Rev. Robt. West..... 707
- Decreasing breeding..... 60, 105
Destroying drones and drone-brood..... 500
Destroying queen-cells..... 84, 442
Detecting glucose..... 675
Device for feeding sugar syrup..... 226
Distance between apiaries..... 101
Difference in colonies..... 277
Differential diagnosis..... 181
Different races of bees..... 136
Discussion and controversy..... 220, 553
Display of honey-plants..... 331
Disposing of surplus of bees..... 596
Distance between apiaries..... 225, 339, 630
Dividing colonies..... 101
Division-boards..... 235, 356, 411
Do bees exercise to keep warm? 746
Do bees hear?..... 120, 171, 232
Do drones work?..... 208
Does bee-keeping pay?..... 121, 326, 453
Dog killed by bees..... 714
Doolittle's report..... 631
Do queens lay drone-eggs?..... 244
Do queens re-mate?..... 388
Dots on Italian queens..... 4
Double-walled hives..... 359, 393
Drones..... 646
Drones comb building..... 471, 523, 550
Drones comb in the second story..... 532
Drones and drone-comb..... 682
Duty of the hour..... 707
Duty on beeswax..... 35
- Early swarm..... 313
Earthquakes and bees..... 451, 586
Egg-bound queen..... 587
Eggs that produce queens..... 36, 219
Elements of fat, etc..... 651, 711, 743
Empty combs..... 324, 340, 387, 404, 407
Empaneled-cloth or oil-cloth covering..... 292
English honey markets..... 659
English royalty and the bees..... 547
Eras of bee-keeping..... 359
Essentials to success in bee-culture..... 233
Evaporating and grading honey..... 536
Excluding market reports from bee-papers..... 810, 811, 825
Experience and experiment 501, 602..... 675
Experiences in bee-keeping 72, 75, 91, 107, 172, 267, 458, 504, 581, 643, 647..... 824
Extensive brood-rearing..... 281
Extracted honey..... 153, 166, 186, 745
Extracting..... 363, 424, 457
Extra colonies or manipulation— which?..... 453
Extra openings in hives..... 388
- Fall honey for winter stores..... 644
Fall work in the apiary..... 535
Fastening combs to separators..... 509
Fastening frames in hives..... 234
Feeding back extracted honey..... 628
Feeding bees 4, 6, 123, 156, 164, 180, 186, 196, 202, 243, 276, 296, 350, 347, 550, 741..... 778
Feeding bees for winter..... 644, 696, 805
Feeding maple syrup..... 283
Feeding sugar to bees..... 281, 297, 329, 362, 411, 473, 520, 550, 601, 646
Fenced bee-yards..... 421
Fertilization of flowers by bees..... 6, 153, 188..... 280
Fertilization of queens..... 180, 277
Finding the queen..... 85, 123
First of May..... 275
Floating pollen in the honey..... 612
Formation of "cells" by bees..... 470
Foul brood 295, 360, 385, 491, 531, 557, 559, 584, 596, 601, 615, 616, 676, 698, 710, 712, 744, 757, 773, 792
Foundation in the brood-chamber 632
Freaks of bees..... 39
Frozen fish in Florida..... 342
Fruit-growers and bee-keepers..... 393
Fumigating comb honey..... 740
Fumigator for introducing queens..... 538
Future of bee-culture..... 758
- German bee-papers..... 803
Getting a large surplus..... 598
Getting bees from a bee-tree..... 788
Getting bees into the sections..... 628
Getting ready for the honey-flow..... 148
Glass globe with bees..... 571
Grading honey for market..... 467, 565
Granulated and thin honey..... 295
Granulation of honey..... 164, 196
Grape-growers and bees..... 469
- Half bee-apices..... 267
Handling bees..... 791
Hatching bee-eggs..... 726
Has Nature made a mistake?..... 631
Have bees a language?..... 230
Heidon's new hive and bee-book 213, 218..... 270
Hibernation of bees. 5, 11, 41, 55, 87, 171, 197, 203, 230, 232, 235, 313, 421..... 808
Hints to bee-keepers..... 147, 824
Hive construction and manipulation..... 455
Hive entrances in winter..... 85
Hive I use..... 361
Hive packing for winter..... 651
Hives from artificial stone..... 28
Hive with transverse passages..... 522
Hiving bees..... 472, 523
Home-made blinder..... 307
Honey at Fairs..... 710, 806
Honey-bees and horticulture..... 470
Honey crop of California 115, 147, 355..... 5
Honey-dew 235, 348, 442, 459, 474, 486, 490, 503, 522, 523, 538..... 628
Honey-flora of northern Michigan..... 793
Honey for bees in winter..... 247
Honey for catarrh..... 707
Honey for cholera..... 419
Honey from cappings..... 789
Honey improving by age..... 538
Honey in drone comb for winter..... 680
Honey interests of Florida..... 102, 217..... 329
Honey in Virginia..... 227
Honey market..... 6, 70, 198
Honey-plants..... 41, 214, 264, 676, 778
Honey producers' association..... 811
Honey season in California..... 227
Honey season in Scotland..... 659
Honey used in manufactures..... 675
Honor to whom honor is due..... 619
Horizontal, divisible brood-chambers..... 185
Horses and bee-stings..... 422, 487
House apiaries..... 193, 197, 260, 267
How bees exercise..... 155
How larval bees eat..... 155
How to build a bee-cave..... 776
How to make a honey-room..... 331
Hum, sweet hum..... 293
Hunting bees..... 344, 507
Hybrid bees..... 532, 597
- Importance of apiculture..... 297
In-and-in breeding of bees..... 292
Increase or no increase— which? 580
Infertile queen..... 698
Influence of honey on wintering..... 423
Influence of pollen on honey..... 148
Injustice to honey-producers..... 474
Insect-wax of China..... 24
Intestinal accumulations of bees..... 614
Introducing queens..... 22, 54, 105, 107, 143, 248, 324, 427..... 538
Inventions..... 409
Inverting the brood-nest..... 777
Iowa state fair..... 597
Is it true?..... 707
Italianizing bees 282, 324, 665, 616, 756
Italians vs. black bees..... 699
- Keeping bees in a warm room..... 778
740..... 450
Keeping bees near a railroad 100, 198..... 740
Keeping bees on shares..... 84, 570, 740
Killing young bees..... 237
Kindly criticism..... 246, 282
King winter..... 102
Knowing pure honey..... 92
Kretschmer alternating hive..... 204
- Labeling honey..... 505, 811
Lamentations for..... 551
Lamp-nursery for queen-rearing..... 232
120, 183..... 232

Late breeding.....	516, 821	PASTURAGE FOR BEES.....	635	Removing surplus.....	260, 550	Taste and odor of honey 612, 608,	
Late in occupying the sections.....	372	Acorns.....	522	Rendering combs into wax.....	670,	745.....	779
Late swarms.....	731	Alsike clover 400, 586, 612, 615, 724		744.....	793	Tasting of a honey-bee.....	730
Large honey-yields.....	293	Asters.....	690	Replies to various criticisms. 213, 278		Taxation of bees 300, 341, 344, 346,	
Laughable item.....	597	Bonaset.....	570	Report of Indianapolis conven-		347, 404, 410, 456, 472, 488, 503,	711
Law suits against bee-keeping.....		Buckwheat.....	518, 555, 589	tion.....	758	Telling the bees.....	216, 227
339, 355, 410, 431, 483, 491.....	499	Chapman honey-plant 43, 487,		Restoring flavor of extracted		Temperature inside of hives 306,	
Laying-room for the queen.....	692	507, 518, 571.....	581	honey.....	789	612.....	710
Laying workers.....	36, 106, 452	Goldenrod.....	506	Returning swarms.....	362, 411, 500	Temperature of bee-cellars.....	328, 325
Legislation for bee-keepers. 458,		Holly.....	331	Reversed queens.....	521, 553	Temperature of bees in winter.....	
742, 775, 776, 794, 817, 810.....	823	Honey locust.....	202, 363	Reversible frames.....	28, 56, 116,	91, 184.....	309
Lengthening the swarming-im-		Honey-suckle.....	490	122, 155, 171, 259, 308, 314, 350,		Testing beeswax.....	259
pulse.....	86, 166	Partridge pea.....	522, 587	376, 387.....	74	Texas state fair.....	747
Length of a queen's fertility.....	198	Pleurisy-root.....	552, 690	Reversible hives.....	43, 74, 118, 152,	The coming bee.....	689
Length of drones' wings.....	363	Pow-thistle.....	538	154, 167, 231, 251, 282, 376, 474,		The night is still.....	54
Lexington fair.....	693	Sweet clover.....	182, 579, 590, 627	697.....	744	Things "new" and "old".....	73
Likes and dislikes of bees.....	226	Sweet melissa.....	651	Reversing brood-combs. 228, 350, 522		Tiered brood-chambers.....	501
Lime in the cellar.....	631	Tassel.....	458, 506, 517, 579	Reversing sections.....	779	Tight ceilings in brood-chambers 160	
Location vs. cost of production.....	25	Viper's bugloss.....	458	Re-waxing honey-barrels.....	35, 135	Toledo exhibit.....	450
Lower freight rates.....	811	Wild plum.....	132	Ripening honey.....	400, 789	Top-storing and side-storing.....	68, 136
Lubricating foundation dies.....	340	Patents on bee-appliances.....	199	Roaches.....	314	Top-ventilation of hives.....	772
Mailing queen-bees. 403, 405, 419,		Peculiar actions of bees. 372, 692, 731		Globber bees 290, 341, 419, 467, 747, 778		Transferring bees.....	227, 324, 690
431.....	459	Perforated zinc.....	548	Room for surplus honey.....	308	Troubled bee-love.....	441
Making bee-hives.....	357	Perspicuity in writing.....	203	Round perforations in zinc.....	820	Troublesome bees.....	530
Making bee-keeping profitable.....	438	Petrified honey comb.....	51	Eye meal for pollen.....	138	Two queens in one hive.....	189, 489
Making history.....	102	Phenol and foul brood.....	523, 534, 537	Seasonable suggestions.....	409	Uniting colonies.....	137, 619, 693, 726
Making reports.....	421	Plain sheets of wax 468, 536, 583,		Season of 1886.....	119, 188, 307, 315	Upward ventilation in wintering.....	206
Malaria from bee-cellars.....	234	618, 630.....	648	Second swarms.....	148, 580	U. S. Apicultural Station.....	19
Management for the most honey.....	244, 263.....	Pollen theory.....	615, 728	Sectional brood-chamber hives.....	133, 170, 184, 201, 203, 217, 219,	Using old combs.....	228
Management for the most in-		Pollen alone for bees.....	708	252.....	259		
crease.....	244, 420	Pollen carried from flower to		Section-cases.....	28, 105, 199	Varieties of bees.....	79
Managing bees.....	8, 52, 197	flower.....	6, 57	Sections.....	277	Varnish barrels for honey.....	123
Managing the sale of honey. 747,		Pollen for bees in winter.....	616	Sections without separators.....	22	Ventilation and temperature in	
762.....	810	Pollen in sections.....	341, 532, 571	Sections with side-openings.....	196, 613	winter.....	58
Manilla paper for hives.....	618	Pollen theory.....	25, 183, 583	Self-uniting colonies.....	694	Ventilation of hives. 125, 357, 619, 820	
Manufacture of eggs and combs.....	72	Postal regulations.....	531	Selling honey on commission.....	735	Virgin queens.....	410
Marketing honey.....	137, 153, 186,	Preparing bees for winter.....	12,	Sensible words.....	291	Visit to Dr. Tinker's apiary.....	40
328, 411, 523, 565, 566, 587, 646,		201, 498, 692.....	778	Separating swarms.....	436	Visit to J. B. Hall's apiary.....	330, 630
743, 755, 771, 777.....	806	Preparing for the honey-flow.....	294	Separators.....	554, 569, 676	Visit to S. T. Pettit's apiary.....	408
Mating of queens.....	308, 256, 452	Preserving bee-papers.....	69	Shading hives.....	356, 387, 452	Water in honey.....	698
Medicinal properties of honey.....	261	Prevention of absconding swarms.....	410	Shipping bees.....	187, 506	Waxy combs.....	715
Michigan state fair.....	617	Prevention of after-swarms.....	183	Shipping bees by the pound.....	7, 328	Wax-secretion.....	10
Misrepresentation about honey.....		Prevention of bee-diarrhea.....	473	Shooting into a swarm.....	344	Weak colonies.....	279, 345, 373, 411
19, 57, 67, 99, 103, 131, 443.....	467	Prevention of swarming 201, 228,		Skunks in the apiary.....	56	Western fair in Canada.....	713
Moisture in hives.....	810	328, 331, 347, 522, 538, 564.....	708	Small hives vs. large hives 37, 66,		What fools these mortals be.....	723
Mother.....	643	Prime swarms.....	156	75, 89, 132.....	197	What the bees sing.....	579
Moving bees.....	22, 613	Priority of location.....	516, 709	Solar wax-extractor.....	501, 552, 581	Who owns the bees?.....	426
Musing of a N. Y. bee-keeper.....	358	Prizes for honey and bees at fairs.....	42	Something fraud can't counter.....	649	Who should keep bees.....	167, 791
National bee-keepers' union 199,		Production of honey.....	4, 89, 378, 773	Spiders and empty combs.....	407	Why is it mysterious?.....	483
357, 374, 389, 424, 426, 474, 499,		Production of wax.....	296	Spring management of bees.....	585	Wide frames with separators.....	140
682, 709, 753, 781, 782.....	803	Prolific queens.....	363, 443	Standard of excellence for honey.....	23	Width of brood-frames.....	620
Natural swarms or nuclei-which? 485		Provincial exposition.....	645	Starch sugar in honey.....	379	Wing-clipped queens.....	136
New bee-disease.....	28	Pumpkin honey.....	551	Stimulative feeding.....	4, 184, 276	Winter depositories for bees 437, 535	
New races of bees.....	807	Pure queens.....	356, 388, 497, 689	Stingless bees.....	227	Winter flights for bees.....	164, 171
New uncapping-knife.....	179	Purifying beeswax.....	356, 388, 497, 689	Sting structure of the bee.....	549	Wintering bees.....	11, 70, 135, 139,
Non-swarming bees and system.....		Putting bees into cellars 169, 724, 757		St. Joseph bee and honey show.....	696	150, 155, 308, 251, 264, 278, 285,	
488, 570, 727, 778.....	810	Putting on a postage stamp.....	596	St. Louis fair exhibit.....	714	297, 313, 394, 421, 472, 570, 600,	
Notes of the season.....	649	Putting on sections.....	323	Storing honey.....	292, 424, 745	629, 681, 744.....	806
Number of colonies in one place. 101		Queen decides.....	51	Straight combs.....	235	Wintering bees in a pit.....	52
Number of frames in a hive and		Queen-excluders.....	244	Strengthening weak colonies.....	183	Wintering bees in a straw-stack.....	778
for winter.....	426, 548	Queen-excluding honey-boards.....	171	101, 123.....		Wintering bees in cellars 39, 136,	
Observations in bee-culture.....	231,	Queen-excluding top-bar.....	806	101, 123.....	183	164, 201, 360, 311, 346, 360.....	600
457.....	693	Queen laying many eggs in a cell.....	420	harvest.....	58	Wintering bees in clamps.....	714
October theory.....	282	Queen colonies.....	363	Success in bee-culture.....	666	Wintering bees under a kitchen.....	804
Old bee-gum.....	435	Queen-nurseries.....	36, 183	Sugar syrup for winter stores 44,		Wintering problem.....	250, 314, 725
Old drones.....	234	Queen-rearing.....	136, 232	58, 107, 152, 155, 231, 248, 262,		Winter meetings of bee-keepers.....	498
Oldest apicultural publisher.....	435	Queen restrictors.....	393	633		Winter protection of bees.....	504
Opposition to bee-keeping.....	262	Queens.....	408	Summer management of bees.....	698	Winter stores of bees 942, 408, 650, 757	
Organization for protection.....	42	Queen-traps to prevent swarming 788		Superceding queens.....	309, 340	Wired frames.....	633
Original invention.....	123	Questions.....	379, 442	Surface measure of foundation.....	219	Wiring brood-frames.....	139
Origin of honey.....	68, 117, 691	Quietude, semi-hibernation, etc., 313		Surplus arrangements.....	132	Words to a honey-bee.....	311
Overstocking a locality.....	548	Quiescence of bees in winter.....	215	Swarm-catchers.....	393	Worker bees dying.....	484
Packing hives.....	4, 200	Quinty standing frames.....	71	Swarm-catchers.....	554	Worker-comb building.....	372, 410,
Painted hives.....	726	Rearing drones.....	164	Swarming.....	383, 408, 411, 426, 475	459	
Paper comb.....	363, 522	Rearing queens.....	248, 504, 644	Sweet Pyramid.....	755	Work in the apiary.....	573
Paper fuel for smokers.....	707	Rearing worker bees.....	564	Syrrian and Italian bees.....	4, 404		
Paralyzed bees.....	436, 467, 505	Recipes for honey cakes.....	108				
Paste for honey labels, etc.....	675	Red-clover honey.....	611, 614				
Past, present and future of the		Red-clover Italian bees.....	60, 180, 731, 705				
N. A. B. K. society.....	677						

INDEX TO CORRESPONDENTS.

Abbott, L. F., 505.	Bailey, J. W., 555.	Beckly, Fred, 105.	Boardman, H. R., 123, 506	Bussanmas, Otto, 587, 666.	Clark, H., 170, 220.
Addenbrooke, W., 57, 731	Bailey, Moses, 199.	Beckell, R. S., 569.	Bohn, Gustav, 83, 451.	Byard, J. L., 763.	Clark, J. A., 323, 714.
Affenbaugh, N. W., 91.	Baile, B. J., 155.	Beitel, C. G., 202, 775, 807.	Bostwick, J. R., 395.	Cady, J. E., 59, 587.	Clark, J. W., 172.
A. J. F., 106.	Baker, A. J., 419.	Beisel, Lawrence, 506.	Boyd, Gartner, 187.	Caldwell, J. V., 124, 217,	Clark, L. C., 90.
Alderman & Roberts, 75.	Baldridge, M. M., 153.	Bell, T. J., 219, 267.	Boyer, C. E., 171.	808, 810.	Clark, W. E., 171.
Aldrich, A. T., 778.	267, 377, 774, 810, 822.	Benton, Frank, 435, 454.	Boyles, I. N., 171, 187.	Camm, Wm., 9, 124.	Clark, Z. A., 124.
Aldrich, M. M., 202.	Baldwin, B. T., 394.	Bernsheim, Ernst, 427.	Bradish, C. W., 203, 811.	Camp, C. A., 458, 506.	Clarke, Rev. W. F., 37,
Alexander, Theo., 346.	Baldwin, O. N., 23, 107,	Bertrand, Ed., 803.	Broth, A. M., 296.	Campbell, E. C., 423, 567.	55, 121, 135, 182, 197,
Alley, Henry, 183, 314.	600.	Besse, Dr. H., 11, 19.	Brockenbrough, J. W., 267	Carder, A., 508.	198, 209, 216, 220, 246,
Alves, G. M., 71, 167, 283.	Baldwin, P., 327.	Bettinger, N. N., 676.	Brown, D., 362.	Carman, H. W., 305.	313, 327, 358, 368, 468,
Anderson, J. L., 107.	Balmer, J. A., 249.	Betten, B., 410.	Brown, J. F., 3, 443.	Carroll, B. F., 155, 363,	478, 449, 581, 600, 630,
Anderson, Wm., 190, 200,	Barb, J. S., 234.	Billing, Peter, 60.	Brown, Dr. J. P. H., 117,	537, 747.	645, 677, 741, 758, 773,
711.	Barber, Ira, 282, 300, 458,	Bingham, T. F., 122, 124,	586, 695, 745.	Cates, H. M., 635.	822.
Andre, J. H., 59, 123, 202.	810.	169, 227, 251, 487, 507,	Brunson, G. A., 646.	Cedarholm, J. P., 570.	Clay, C. M., 227.
234, 265, 361, 393, 408,	Barnum, W. M., 235, 504,	571, 616, 790.	Buchanan, J. A., 40.	Chaddock, Mrs. M. B.,	Clay, O. M., 469.
483, 506, 522, 550, 569,	570.	Bittenbender, J. W., 186,	Buchanan & Bro., J. W.,	Chadwick, Mrs. M. B.,	Clendenin, A., 693.
596, 680.	Barrows, O. B., 776, 810.	773.	588, 695, 745.	Chadwick, Mrs. M. B.,	Clickenger, Earle, 598.
Armstrong, E., 292.	Baxter, E., 74, 119, 259.	Bittenbender, S., 250.	Burnet, H. G., 204.	Chadwick, Mrs. M. B.,	Clough, W. V., 570, 776.
Asbby, G. W., 251.	Beal, C., 123.	Blitz, Wm., 410.	Burwell, Dr. R. M., 331,	Chadwick, Mrs. M. B.,	Clute, Rev. O., 23, 488,
Aspinwall, John, 692.	Beal, O. F., 139.	Blair, T. F., 309.	538.	Chadwick, Mrs. M. B.,	520, 533.
Ault, A. E., 43.	Beale, Rev. W., 59, 105.	Bledsoe, O. F., 43, 233.	Chute, Freeman, 283.	Chadwick, Mrs. M. B.,	Cogshall, D. H., 475.
Austin, Charlie H., 811.	Beath, Jos., 137, 407, 731.	Bliss, W. W., 438, 615.		Chadwick, Mrs. M. B.,	Cogswell, C. H., 475.

- Coleman, T. M., 28, 522.
Colquhoun, A. B., 438.
Comstock, J. L., 251.
Conolly, John T., 586.
Cook, Prof. A. J., 25, 51, 87, 147, 155, 188, 218, 403, 488, 579, 627, 651, 695, 723, 726, 742, 759, 761, 777, 789.
Cooley, Mrs. E. A., 715.
Coombs, E. M., 362.
Corbett, Robt., 603.
Cornell, S., 646.
Couse, W., 615.
Cowad, A. P., 331.
Craycraft, John, 698.
Cram, M. M., 651.
Cronkleton, E. J., 11.
Crowell, L. H., 70.
Cullinan, W. J., 51, 106, 216, 275, 282, 603, 630, 725.
Cummins, A. W., 379.
Cunningham, Mrs. H. A., 581.
Curl, Frank, 170.
Currier, A. F., 426.
Cushman, Sam'l, 409, 616, 711.
Cutting, H. D., 19, 42, 617, 662.
Dadant & Son, Chas., 583, 619.
Dadant Chas., 75, 168, 231, 423.
Dadant, C. P., 60, 678, 704.
Darling, M. J., 339, 410, 491.
Dart, R., 185.
Dawson, W. J., 155.
Davies, T. C., 107.
Davis, C. M., 43.
Davis, John L., 763.
Davis, Nathan, 74.
Davis, W. J., 203.
Dayton, C. W., 25, 30, 58, 89, 166, 197, 230, 235, 294, 270, 282, 307, 313, 357, 379, 389, 411, 441, 457, 467, 489, 506, 519, 566, 614, 757.
Dean, E. K., 619.
Deer, Geo. M., 314.
Demaree, G. W., 6, 102, 122, 139, 169, 202, 375, 501, 553, 579, 591, 746, 758, 761, 762.
Dennler, J., 550.
DeSoto, L. J., 315, 331, 343, 379, 410, 442, 491, 536, 571, 648.
Detweiler, J. F., 10, 60, 102, 329, 343, 458.
Dewey, J. L., 618.
Dibbern, C. H., 243, 291, 397, 323, 363, 410, 467, 483, 739, 773.
Dickason, M., 8.
Diehl, J., 296.
Dimitry, A. A., 172, 299, 534.
Dodge, A. A., 371, 778.
Doollittle, G. M., 7, 39, 53, 59, 83, 86, 106, 123, 149, 170, 215, 277, 293, 309, 341, 346, 373, 395, 405, 433, 485, 517, 565, 597, 631, 693, 741, 761, 773, 787, 821.
Dorr, Dr. H. R., 45, 307, 315.
Dow, L. A., 346.
Dougherty, F. L., 83, 103, 163, 227, 323, 339, 467, 602, 627, 683.
Doudna, G. M., 411.
Douglas, Miss M. A., 88.
Douglass, W. S., 41, 347, 714.
Dow, C. P., 507.
Drane, E., 299.
Dunn, John, 138.
Easley, S. M. W., 458.
Eastman, A., 74.
Eaton, E. F., 763.
Eaton, Frank A., 106, 169, 188, 824.
E. H. C., 196.
Eckman, J. W., 252.
Emmison, J. A., 491.
Emmison, J. D., 49.
England, P. J., 43, 586.
Erbrodt, H., 762.
Evans, O. J., 87.
Evans, W. M., 691.
Ewing, E. E., 172, 731.
Fairman, Justice, 519.
Fassett, A. C., 72, 235.
Fassett, C. B., 555.
Field, Noah, 43, 155, 378.
Fish, W. G., 507.
Fisher, A. J., 635.
Fisher, H., 493, 570.
Fisher, Jos. H., 390.
Fisk, A. W., 507.
Flanagan, E. T., 811.
Flick, H. H., 411.
F. M. J., 187.
Ford, Wm., 314, 714.
Foster, Oliver, 377.
Fox, Elias, 171, 773.
Fradenburg, A. A., 219.
France, E., 762.
Franklin, Benj., 377.
Freeman, H. M., 555.
Fuller, D. A., 56.
Furness, Dwight, 119.
Gallup, E., 473.
Gammon, R., 810.
Gander, A. M., 570, 710.
Gavin, Thos., 779.
Gemmill, F. A., 107, 586.
Gibson, F. A., 138.
Gibson, P. L., 491.
Gill, J. D., 490.
Gilliland, J. C., 155, 259, 459.
Glass, I. J., 38, 203, 487, 493.
Glover, Thos. G., 638.
Goff, D. S., 283.
Good, I. K., 235.
Goodrich, J. M., 57, 234.
Gosney, W. G., 263.
Graham, H., 710.
Graham, J. W., 699.
Gravenhorst, C. J. H., 503.
Graves, H. N., 27.
Graves, W. H., 283, 603, 763.
Green, J. A., 105, 198, 599.
Greiner, F., 487.
Grier, S. C., 382.
Grinsell, R., 137.
Guice, L. F., 91.
Haag, H. W., 137, 810.
Haas, Chas., 188.
Hachenburg, Dr. G. P., 51, 291, 344.
Hah, Prof. C. H., 375.
Hallegans, C. A., 795.
Halter, J., 419.
Hambach, J. M., 9, 443, 537, 648.
Harian, J. G., 86.
Harrison, Jos., 761.
Harris, M. L., 138.
Hart, W. S., 75, 217, 695.
Hartman, H. T., 235.
Haskins, John, 283, 699.
Hassler, J. H., 491.
Hatfield, A. J. & E., 203.
Havens, Reuben, 69, 346.
Haworth, J. L., 282.
Hayes, Geo. H., 203.
Hayhurst, E. M., 7, 443.
Hays, J. F., 474, 586.
Hedder, John E., 107.
Heater, Mrs. J. N., 307, 314, 763.
Heddon, James, 12, 19, 73, 107, 139, 150, 165, 169, 170, 187, 213, 267, 279, 339, 342, 374, 409, 435, 474, 532, 615, 709, 761, 775, 810.
Heinemann, V., 137.
Henkle, E., 92, 296.
Hennink, C. F., 522.
Hidemann, E. S., 579.
Herrick, D. D., 267, 475.
Hershiser, O. L., 475.
Hewett, C. P., 41, 437.
Hewitt, John, 54.
Hicks, J. M., 230, 824.
Highberger, L. S., 155.
Hildemann, E. S., 579.
Hill, H. E., 251, 281, 406, 473, 571, 601.
Hill, L. T., 411.
Hills, Mrs. H., 474.
Hilton, Geo. E., 172, 307, 394, 793.
Hoffman, Gottlieb, 155.
Houne, R. G., 428.
Hoke, Abe, 314, 442.
Holmes, Rufus E., 171.
Holmes, R. H., 89.
Holt, B. H., 803.
Holtmann, R. F., 27, 70.
Holtmann, E. S., 579.
346, 363, 408, 539, 570, 714, 739, 771.
Homer, Geo. W., 283.
Hood, John, 395.
Hooker, J. M., 643.
Hopkins, J. J., 59.
Hovey, Mary E., 779.
Howe, A. B., 156.
Howe, David L., 522.
Hoyle, Geo. H., 601.
Hoyt, Wm., 104, 119.
Hubbard, H. E., 150, 568, 809.
Hunt, Rev. J., 603.
Hunt, H. F., 696.
Hutchinson, W. Z., 37, 43, 120, 136, 152, 171, 199, 232, 262, 282, 329, 392, 411, 437, 470, 529, 539, 550, 633, 639, 682, 715, 727, 762, 807.
Imlay, D. M., 57, 331.
Isley, John L., 314.
Jackson, L. R., 295.
Jackson, Mrs. O. T., 698.
Jardine, Jas., 346, 824.
Jarvis, E., 570.
Jeffrey, H. L., 71.
Jenkins, J. M., 202.
Johnson, F. M., 602.
Johnson, J. W., 263.
Johnson, L., 106, 248.
Jones, D. A., 35.
Jordan, E. C., 763.
Jordan, E. T., 299, 426.
J. R., 170.
Kanzler, W. F., 309, 314, 467.
Kellogg, Dr. J. H., 467.
Kemp, W. C. R., 315.
Kennedy, F. H., 186, 713, 714.
Kepper, E. C., 406, 410, 489.
Kerles, L. J., 427.
Kidney, Dr. G. H., 379, 427.
King, A. J., 594, 551, 677.
King, Joe, 551.
Kingsley, Mrs. C. M., 571.
Kinsey, T. F., 123, 219, 347, 555, 569.
Kinsey, W. L., 713.
Kleinow, Otto, 187.
Koepfer, L., 214.
Kretschmer, E., 185, 259, 324, 346.
Kruschke, H. O., 231, 409.
Langley, W. T., 395.
Larrabee, J. H., 221, 523.
Latham, Allen, 281.
Latham, J. F., 153, 280, 282, 649.
Lattner, P., 523.
Lawrence, A. P., 91.
Lee, Fayette, 137, 208, 395, 555, 778.
Lind, A. H., 362.
Lingerman, John, 504.
Little, B. F., 150.
Loksdon, J. F., 11.
Longbottom, T. B., 219.
Losee, B., 155, 378, 538, 57.
Lowry, G. C., 314.
Lyman, W. C., 202.
Mahin, Rev. M., 521.
Mahoney, M. W., 726.
Malone, Wm., 201, 387.
Mallory, S. H., 426.
Mannix, F. R., 104.
Mason, Dr. A. B., 92, 108, 650, 681.
Mason, J. B., 186.
Mason, Mrs. E. H., 27, 40.
Mason, W., 12, 92, 187, 267, 328, 395, 474.
Mason, E. P., 795.
Meade & Co., G. W., 115.
Meader, J., 689.
Medearis, E. T., 197.
Merrick, F. L., 825.
Metzler, R., 74.
Miller, Dr. C. C., 44, 69, 107, 132, 187, 211, 220, 227, 246, 251, 487, 742, 761, 776, 823.
Miller, J. M. A., 155.
Miller, Wm. H., 138.
Minor, O. P., 108, 156, 379, 635.
Minich, Dr. J. A., 216.
Minns, H. W., 345.
Minor, N. L., 311.
Mishler, J. C., 232.
Mitchell, Chas., 410, 523, 778.
Moller, John, 443.
Moore, R. L., 378.
Morris, Geo. W., 12, 252.
Morris, John, 27, 75.
Morse, Wm., 11.
Moyer, H. M., 795.
M. P. C., 139.
Murhard, Gust., 198, 394, 570, 630.
Muth, C. F., 144, 438, 606.
Muth-Rasmussen, Wm., 56, 378, 422, 502.
Myers, D. J., 506.
Myers, Isaac M., 60.
Myers, Jos., 11.
McCounoughy, F. J., 311, 505.
McCormick, Wm. R., 251, 363, 378, 824.
McClung, S. F., 825.
McClure, R. E., 179.
McFarland, F. H., 283.
McKenzie, Wm., 201.
McLain, N. W., 19, 181, 245, 277, 296, 312, 518, 584.
McLees, S., 11.
McNeill, James, 331, 394, 552, 699.
McWilliams, W. H., 459.
Nau, John, 281.
Nebel & Son, J., 123, 235.
Nelson, Jas. A., 745.
Neuman, P. F., 331, 400.
Neuman, Albert, 319.
Newman, S. F., 72, 307, 314.
Newman, Thos. G., 358, 661, 683, 697, 761.
Nichols, J. R., 155.
Nipe, James, 138.
Noble, A. H., 698.
Noble, D. C., 347.
Noble, H. M., 252.
Norris, A. J., 775.
Northrup, H. J., 714, 731.
Norton, J. G., 12, 203, 618.
Novia, B., 475.
Odell, Sam'l, 331.
Oney, G. B., 219.
Orney, Jesse, 75.
Ormsby, L. D., 795.
Osborn, R., 187, 823.
Osborne, Robt., 28.
Osborne, W. H., 794.
Osburn, A. W., 23, 120, 219, 315, 520.
Oswalt, Jacob, 75, 235, 395.
Owen, Prof. D. A., 389.
Parish, Grant, 747.
Park, D. F., 426.
Parker, H. M., 347, 554.
Patterson, Henry, 379, 763.
Patterson, H. N., 105.
Pearce, J. A., 170.
Pease, G. J., 137.
Peck, B. W., 171, 235, 731.
Perkins, G. H., 307.
Perry, W. T. E., 74.
Pheasant, T. T., 638.
Pickup, E., 426, 714, 778.
Pierce, Warren, 123.
Pickerton, J. L., 601.
Pond, J. E. Jr., 51, 59, 169, 198, 247, 282, 344, 424, 486, 519, 630, 634, 667.
Poultier, 73.
Powell & Son, J. W., 522.
Powers, E. W., 811.
Pringle, Allen, 787.
Proctor, J. A., 91.
Pryor, W. A., 57, 456.
Pugley, Cyrus G., 235.
Purvis, L. G., 491.
Putnam, C. H., 91.
Putnam, J. R., 651.
Quinby, Moses, 377.
Rankins, G. L., 347.
Rawlins, J. C., 330.
Redd & Wilburn, 202.
Reed, L., 259, 298, 346, 555.
Reynolds, J. L., 124, 171, 211, 426, 571, 810.
Reynolds, John, 43.
Richardson, C. C., 469, 601.
Ridenour, John G., 51.
Robbins, Mrs. C., 331.
Robbins, George F., 345, 502, 567, 631.
Roberts, W. J., 202, 341, 503.
Robinson, W. R., 457, 618.
Robson, A. F., 459.
Rockwell, F. P., 347, 506.
Rock, John, 219.
Root, A. L., 19, 195, 739, 761.
Root, L. C., 107, 310, 357.
Rose, A., 219, 377, 314, 363.
Rosebrough, D. R., 283, 393, 443, 538.
Ross, R. B., 426.
Roulo, F., 457, 459.
Rounsaville, J. W., 172.
Rouse, H. L., 811.
Rowe, Wm. M., 538.
Rowland, N. H., 283, 603.
Russell, Esau, 267.
Russell, W. G., 27.
Sanders, J. W., 27, 106, 215, 378, 392, 480, 618, 634, 760.
Sandhoff, Chas., 634.
Savage, Jos. A., 757.
Schacht & Lemcke, 147.
Schell, Eva, 504.
Scholl, Jonas, 363, 695.
Shrier, Christian, 108.
Seoven, J. S., 234.
Secor, Eugene, 11, 136, 362, 426, 597, 631, 728, 757.
Segare, H. M., 107.
Segare, M., 275.
Shafnit, W. A., 315.
Shapley, D. L., 201.
Shaver, Jos. E., 170, 395.
Shearman, J. O., 235, 503, 568, 811.
Sherman, F. D., 163.
Sherman, S. E., 74.
Sherman, S. L., 43, 267.
Sherman, Wilson, 92, 202, 454.
Shepherd, M. W., 505.
Shuck, J. M., 105, 179, 376, 634.
Shuck, S. A., 232.
Slammins, S., 807.
Sitts, Chas., 634.
Slayton, E. G., 394.
Sleeper, S. S., 507.
Smith, Chas., 538.
Smith, E. F., 108.
Smith, H. J., 139.
Smith, L. B., 824.
Smith, W. F., 570, 710.
Smith, Wm. H., 505.
Smith & Smith, 124.
Snell, F. A., 153, 810.
Sniverson, Chas., 230.
Sontag, H., 267.
Soule, F. F., 535.
Southwick, Dr. E. B., 10, 456, 472.
Spencer, M. L., 474.
Sperry, Mexico, 234, 810.
Spiller, Geo., 170, 393.
Stanhope, Edwin, 328.
Stearns, W., 251, 523.
Stephenson, S., 187.
Stewart, W. H., 42, 328, 421, 470, 533, 585, 598.
Stiles, F. P., 40, 188, 632.
Stinger, Grant, 603.
Stith, A. W., 202.
Stockwell, G. A., 41, 423.
Stokes, Thos., 282.
Stoller, Wm. A., 123, 746, 763.
Storm, W. Frank, 267.
Strong, J. L., 362.
Subscriber, 523.
Sunday, P., 443.
Swain, Marshall, 107.
Swartwood, Vira, 12.
Sweet, C. L., 711.
Taintor, F. M., 155, 202, 283.
Tait, J. H., 124.
Taylor, Preston, 618.
Taylor, R. L., 183, 583, 690, 792.
Teft, J. W., 640, 475.
Thaxton, P. B., 60.
Thierville, Frank, 171.
Thielmann, C., 24, 58, 311, 439, 474, 522, 728.
Thom, Dr. J. C., 491.
Thomas, Edith M., 54.
Thomson, Mark, 170, 269, 474, 713.
Thorne, Allen H., 91.
Thorne, W. B., 29.
Thornton, John A., 8.
Ticknor, F. A., 508.
Tinker, Dr. G. L., 5, 153, 200, 363, 712, 808, 825.
T. J. C., 123.
Todd, Arthur, 179, 675, 696.
Tongue, L. N., 762.
Tony, B. B., 186.
Turnbull, John, 28.
Turner, T. E., 301.
Tuttle, W. H., 234, 299.
Tyrrell, A. C., 651.
Twitcheil, J., 139.
Upton, Mrs. J. F., 267.
Valentine, J. M., 108.
Valentine, S. J., 58, 596.
Vance, Robert A., 555.
Videto, D., 124.
Walker, Chas., 299, 777.
Walker, John W., 714.
Wallace, Thos. S., 251.
Wallbridge, A. H. Jr., 458.
Waller, J. J., 442.
Ward, N. H., 139, 537.
Ware, Wm. F., 74.
Watkins, S. L., 699.
Watters, David, 779.
Way, D. S., 693.
Webster, F. H., 507.
Webster, S. D., 203.
Weed, C. M., 603.
Weeks, C., 234.
Weidman, H., 442.
Weils, H. L., 348, 698.
Weils, J. Q., 137.
Werner, Louis, 203, 698, 714.
West, Rev. Robt., 19, 67, 131.
Weston, W. H., 554, 713.
Wheeler, J. C., 168.
Whiting, Dr. L. C., 170.
Whitney, W. V., 282.
Whittemore, M. E., 579.
Wiele, Chas. H., 51.
Wilby, Edwin, 251.
Wilcox, David, 647.
Wilcox, F. A., 120.
Williams, L. R., 331.
Williams, W. K., 74.
Willis, Rev. G. T., 41.
Willis, Wm., 522.
Wilson, Henry, 779.
Wilsie, Titus C., 11.
Wilson, J. C., 206, 295.
Wise, T. C., 186.
W. J. C., 137.
Wood, D., 227.
Woodcock, B. F., 294.
Woodward, H., 347.
Woodward, Dr. R. B., 747.
Woodward, W. M., 342, 457, 688.
Wortman, A., 187, 586.
W. R. F., 138.
W. R. H., 426.
Wright, Geo. A., 472.
Wye, A., 289.
Young, Ivar S., 211.
Young, Thos. & Benj., 379.
Youngman, J. J., 138, 248, 269, 585.
Zastro, Ferd., 219, 346.
Zinn, W. B., 60.



ILLUSTRATIONS.

- Bee-moth..... 407
Canadian honey exhibit in London..... 694
Foster's adjustable honey-case..... 377
Moth-eaten comb..... 407
Moth cocoons..... 407
Petrified honey comb..... 51
Shuck's surplus case..... 105
Teasel..... 458
Yucca brush..... 435



Issued every Wednesday by
THOMAS G. NEWMAN & SON,
 PROPRIETORS,
 923 & 925 WEST MADISON ST., CHICAGO, ILL.
 At One Dollar a Year.

ALFRED H. NEWMAN,
 BUSINESS MANAGER.

Special Notices.

To Correspondents.—It would save us much trouble, if all would be particular to give their P. O. address and name, when writing to this office. We have several letters (some inclosing money) that have no name; many others having no Post-Office, County or State. Also, if you live near one post-office and get your mail at another, be sure to give the address we have on our list.

When Renewing your subscription please try to get your neighbor who keeps bees to join with you in taking the BEE JOURNAL. It is now so cheap that no one can afford to do without it. We will present a **Binder** for the BEE JOURNAL to any one sending us three subscriptions—with \$3.00—direct to this office. It will pay any one to devote a few hours, to get subscribers.

The Report of the Indianapolis Convention is now published in pamphlet form, uniform with that of last year. It will be sent postpaid for 25 cents to any address.

We have also bound it up with last year's, together with the History of the Society; this we will mail for 40 cents. Or if you send us one new subscriber (with one dollar) besides your own renewal, we will present you with a copy by mail.

Money Orders can now be obtained at the Post Offices at reduced rates. Five dollars and under costs now only 5 cents. As these are absolutely safe, it will pay to get them instead of the Postal Notes which are payable to any one who presents them, and are in no way safe.

Reader, do you not just now think of one bee-keeper who does not take the Weekly BEE JOURNAL, and who should do so? Perhaps a word or two from you will induce him to do so. Will you not kindly oblige us by getting his subscription to send on with your own renewal for next year? When you do so, please select any 25 cent book in our list, and we will send it to you post-paid, to pay for your trouble. We are aiming to get 5,000 new subscribers for 1887, —will you not assist us to obtain them?

Simmins' Non-Swarming System is the title of a new English bee-book. The author claims that it will inaugurate a "new era in modern bee-keeping," and states that "it is based upon purely natural principles, and is the only system that can ever be relied upon, because no other condition exists in the economy of the hive that can be applied to bring about the desired result—a total absence of any desire to swarm." It contains 64 pages; is well printed and illustrated. Price 50 cents. It can now be obtained at this office.

The Western World Guide and Handbook of Useful Information, contains the greatest amount of useful information ever put together in such a cheap form. The printing, paper, and binding are excellent, and the book is well worth a dollar. To any one sending us two new subscribers besides his own, with \$3.00, for one year, we will present a copy of this valuable book.

New Subscribers are coming in rapidly—for this our thanks are tendered to the friends of the AMERICAN BEE JOURNAL, who are exerting their influence in its behalf. We should thrille our list at the present low rate of one dollar a year. We hope every one of our present subscribers will send at least one additional subscriber with the renewal for 1887.

We refer our Subscribers to our offers of premiums and net club rates for new subscribers, and if they will send us one or more subscriptions from among their neighbors who are interested in bees, they will get the premiums or Cash reductions as they may indicate—to pay for their trouble; and at the same time they will be enhancing the usefulness of the JOURNAL and contributing toward its prosperity.

Preserve your Papers for reference. If you have no **HINDER** we will mail you one for 60 cents, or you can have one **FREE** if you will send us 3 new yearly subscriptions for the BEE JOURNAL.

Yucca Brushes are employed for removing bees from the combs. They are a soft, vegetable fiber, and do not irritate the bees. As each separate fiber extends the whole length of the handle as well as the brush, they are almost indestructible. When they become sticky with honey, they can be washed, and when dry, are as good as ever. The low price at which they are sold, enables any bee-keeper to have six or more of them, so as to always have one handy. We can supply them at 5 cents each, or 50 cents a dozen; if sent by mail, add 1 cent each for postage.

The Convention History of America with a full report of the proceedings of the Detroit and Indianapolis conventions, and the AMERICAN BEE JOURNAL for one year, will be clubbed for \$1.25.

Dr. Miller's Book, "A Year Among the Bees," and the BEE JOURNAL for one year, we will club for \$1.50.

More Premiums.—Mr. L. J. Diehl, of Butler, Ind., offers a colony of Italian bees as a present to the person sending to this office the largest club of subscribers for 1887. The subscriptions may be sent in at any time before the first of May at our regular club rates, and additions made as desired, but it must be stated that you are working for that premium, so that we can keep account of the subscriptions.

As a premium to the second largest club we will send my mail, postpaid, a copy of the "Farm Account Book," worth \$3. The postage is 20 cents.

As there is Another firm in Chicago by the name of "Newman & Son," we wish our correspondents would write "American Bee Journal" on the envelope when writing to this office. Several letters of ours have already gone to the other firm (a commission house), causing vexatious delay and trouble.

We anticipate a largely increased list of subscribers for 1887, as \$1.00 cannot be invested by any bee-keeper that will bring him better returns.

Red Labels for one-pound pails of honey, size 3x4½ inches.—We have just gotten up a lot of these Labels, and can supply them at the following prices: 100 for \$1.00; 250 for \$1.50; 500 for \$2.00; 1,000 for \$3.00; all with name and address of apiarist printed on them—by mail, postpaid.

A New Crate to hold one dozen one-pound sections of honey.—It has a strip of glass on each side, to allow the honey to be seen. It is a light and attractive package. As it holds but one tier of sections, no damage from the drippings from an upper tier can occur. We can furnish the material, ready to nail, for 9 cts. per crate. Glass 1¼c. per light, extra.

Colored Posters for putting up over honey exhibits at Fairs are quite attractive, as well as useful. We have prepared some for the BEE JOURNAL, and will send two or more free of cost to any one who will use them, and try to get up a club.

Do you Want a Farm Account Book? We have a few left, and make you a very tempting offer. It contains 166 pages, is printed on writing paper, ruled and bound, and the price is \$3. We will club it and the Weekly BEE JOURNAL for a year and give you both for \$2. If you want it sent by mail, add 20 cents for postage.

Frank Cheshire's new book on Bees and Bee-Keeping, can be had at this office.—Vol. I, bound in cloth, \$2.50, postpaid.

Sample Copies of the BEE JOURNAL will be sent **FREE** upon application. Any one intending to get up a club can have sample copies sent to the persons they desire to interview, by sending the names to this office, or we will send them all to the agent.

Home Market for Honey.

To create Honey Markets in every village, town and city, wide-awake honey producers should get the Leaflets "Why Eat Honey" (only 50 cents per 100), or else the pamphlets on "Honey as Food and Medicine," and scatter them plentifully, and the result will be a DEMAND for all of their crops at remunerative prices. "Honey as Food and Medicine" are sold at the following prices:

Single copy, 5 cts.; per doz., 40 cts.; per hundred, \$2.50. Five hundred will be sent postpaid for \$10.00; or 1,000 for \$15.00. On orders of 100 or more, we will print, if desired, on the cover-page, "Presented by," etc. (giving the name and address of the bee-keeper who scatters them).

To give away a copy of "Honey as Food and Medicine" to every one who buys a package of honey, will sell almost any quantity of it.

E. Duncan Sniffen, Advertising Agent, 3 Park Row, New York, inserts advertisements in all first-class Newspapers and Magazines with more promptness and at lower prices than can be obtained elsewhere. He gives special attention to writing and setting up advertisements in the most attractive manner, and guarantees entire satisfaction. In all his dealings, he is honorable and prompt. Send for his Catalogue of first-class advertising mediums. Mailed free. 52A40t

System and Success.

All who intend to be systematic in their work in the apiary, should get a copy of the Apiary Register and commence to use it. The prices are reduced, as follows:

For 50 colonies (120 pages).....\$1 00
" 100 colonies (220 pages)..... 1 25
" 200 colonies (420 pages)..... 1 50

The larger ones can be used for a few colonies, give room for an increase of numbers, and still keep the record all together in one book, and are therefore the most desirable.

Fifty-Two Dividends from the investment of one dollar is just what every subscriber of the AMERICAN BEE JOURNAL receives. Can any better interest be found for the investment of one hundred cents? If so, where?

Catalogues for 1887.—Those on our desk are from

David Landreth & Sons, Philadelphia, Pa.
—the oldest seed-house in America.
Z. DeForest Ely & Co's Garden Almanac and Seed Manual, Philadelphia, Pa.

Frank Leslie's Sunday Magazine for January, 1887, contains a beautiful frontispiece entitled "For the Pastor" which is a real art gem. The new serial story, "His Badner over me," by F. A. Matthews, begins in this number. It is a very fine Christmas number.



We have some ELEGANT RIBBON BADGES, having a rosette and gold Bee, for bee-keepers' use at Fairs, Conventions, etc. Price 50 cents each, by mail, postpaid.

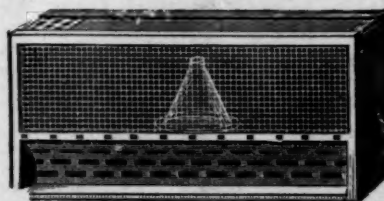
Advertisements.

THE CHAPMAN HONEY PLANT.

Having expended thousands of dollars in bringing before the people one of the most wonderful honey-producing plants known in the United States, or even in the world, and testing it honestly and fairly, wish to say through your valuable JOURNAL that the seed contains so much oil that nothing but fresh seed will grow, or by thrashing, if the seed is bruised or broken, it will not grow for this reason. And by the advice of many prominent bee-keepers, I have decided to sell the limited amount of seed I have raised this season at the following prices, and will send to those who have already ordered the amount of seed due them at this low price: One-half ounce 50 cents; 1 ounce, \$1; 2 ounces, \$1.50; 4 ounces, \$2; 1/2 pound, \$3; 1 pound, \$5. One pound of seed is sufficient for half an acre, if properly thinned out and re-set. Write all orders plainly, and give your post-office in full.

H. CHAPMAN,
52A2t Versailles, Cattaraugus Co., N. Y.

Alley's Drone and Queen Trap.



Price, by Express, 50 cts.; by mail, 65 cts.; 12 in the flat, and one nailed (13 in all), \$3.50; 50, in the flat, \$12.00. Address,

THOS. G. NEWMAN & SON,
923 & 925 West Madison St., CHICAGO, ILL.

GIVEN AWAY!

THE AMERICAN APICULTURIST
A 32-page magazine, published monthly, by Henry Alley, Wenham, Mass.
Terms, \$1.00 per annum. To each new subscriber we will send FREE, by mail, one of our latest improved "Drone and Queen Traps," the regular price of which is 65 cents. Send for sample copy. Make Postal Notes and P. O. Money Orders payable at the Salem, Mass., P. O., or enclose the \$1.00 at our risk.
49A1f

NEW ONE-POUND HONEY PAIL.



THIS new size of our Tapering Honey Pail is of uniform design with the other sizes, having the top edge turned over, and has a bail or handle, making it very convenient to carry. It is well-made and, when filled with honey, makes a novel and attractive small package, that can be sold for 20 cents or less. Many consumers will buy it in order to give the children a handsome toy pail. PRICE, 75 cents per dozen, or \$5.00 per 100.

THOS. G. NEWMAN & SON,
923 & 925 West Madison Street, CHICAGO, ILL.

OHIO POULTRY JOURNAL,

DAYTON, O.—32 pages—Handsomely illustrated; \$1 per year. Will send you sample copy for only 6 cts. in stamps.

Or, we will send you the AMERICAN BEE JOURNAL and OHIO POULTRY JOURNAL for only \$1.40.

Address, ROBT. A. BRADEN,
51A3t DAYTON, OHIO.

THE WESTERN WORLD GUIDE and HAND-BOOK

OF USEFUL INFORMATION.

For HOME SEEKERS or Tourists, Capitalists or Laborers. A vast amount of information not to be found elsewhere at any price.

A cloth-bound book, 4x7 inches, 288 pages
Price, 50 Cents.

The following is only a part of the Contents:

Colored Maps of all the States and Territories, including Alaska and District of Columbia.

Diagrams showing area, population, products, Government, State, School and Indian Lands of the several States.

Histories of each of the States from the Earliest Times.

How to Acquire Lands of any kind, and the Government by any forms who may acquire them, and the differences applicable to the different sections.

Postal, Pension and Patent Laws of the United States.

Coats-of-Arms of the States and Celebrated Places, and of life in different States.

Rules for measuring Lumber, Lumber Liquids, Tables of Weights and Measures of all kinds, Interest Rules and Tables, Land Measures.

Systems of Land Measures in various parts of the United States.

Contains also a Million Useful Facts.

The Weekly Bee Journal, for one year, and the Guide, postpaid, for \$1.30.

THOMAS G. NEWMAN & SON

923 & 925 West Madison St., CHICAGO, ILL.

Send 75 Cents for my New Book—"A Year among the Bees;" 114 pages, cloth bound. Address,

DR. C. C. MILLER,
MARENGO, ILLS.

Dadant's Foundation Factory, wholesale and retail. See Advertisement in another column.

ALSIKE & White Clover Seed. Wholesale and Retail.—E. S. Hildemann, Ashippun, Wis. 51-2-5

IMPORTED Italian Queen in full Colony, only \$8.00—O. N. BALDWIN, Clarksville, Mo. 4Aly

Dadant's Foundation Factory, wholesale and retail. See Advertisement in another column.

THE HORSE,

By E. J. KENDALL, M. D.

A TREATISE giving an index of diseases, and the symptoms; cause and treatment of each, a table giving all the principal drugs used for the horse, with the ordinary dose, effects and antidote when a poison; a table with an engraving of the horse's teeth at different ages, with rules for telling the age of the horse; a valuable collection of recipes, and much valuable information.

Price 25 cents—In English or German.

THOS. G. NEWMAN & SON,
923 & 925 West Madison Street, Chicago, Ill

NON-SWARMING BEE-HIVES.

Most practical for surplus honey in the World. Excellent for rearing Queens; also for increase, when desired. Write for Circulars.

VICTOR W. CLOUGH, GENESKO, ILLS.
51A6t

1007

1007
1007
1007

1007
1007

1007

1007

1007

1007

1007

1007

1007